

Patent Abstracts of Japan

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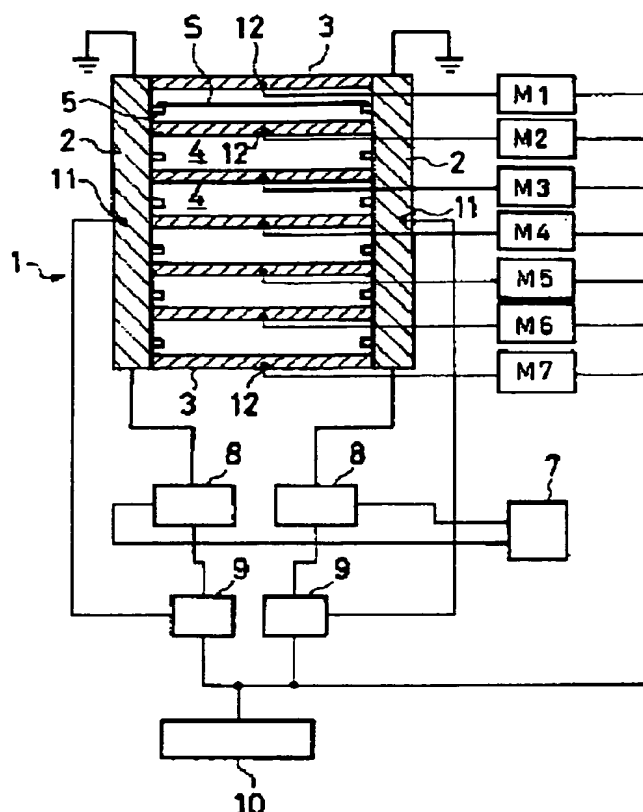
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TITLE : SUBSTRATE HEATING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To stably heat a substrate even if the substrate are successively carried to a substrate heating device and heating the substrates.

SOLUTION: Soaking plates 3 are provided vertically in multiple stages between panel heaters 2, and substrates S are installed to plural slots 4 for heating the substrates partitioned by the soaking plates 3. A temperature adjuster 9 controls the temperature of the panel heaters 2 by signals from a thermocouple 11 for the panel heaters. In the meantime the signals from the thermocouple 12 for the soaking plates are sent to temperature monitors M1-M7, and the signals of the measured temperature of the respective soaking plates 3 are inputted from the temperature monitors M1-M7 to a controller 10. The controller 10 calculates the average temperature of the soaking plates 3 from the inputted temperature measured values of the soaking plates 3, and when the average temperature becomes lower than a prescribed temperature, the controller supplies the control signals to the temperature adjuster 9 for increasing the set temperature of the panel heaters 2. The temperature of the soaking plates 3 rise, accompanying the temperature rise of the panel heaters 2.

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